Performance Data Sheet

AVA5535EXG

General Information

Model	AVA5535EXG	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	380V 3~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	7760	6110					
	Watts	1090	1110					
	Amps	2.46	2.54					
	Lb/h	100	82.0					
-10	Btu/h	9520	7850	6320				
	Watts	1190	1220	1240				
	Amps	2.58	2.66	2.74				
	Lb/h	123	105	88.0				
-5	Btu/h	11400	9700	8140	6630			
	Watts	1290	1320	1350	1390			
	Amps	2.71	2.78	2.86	2.92			
	Lb/h	146	129	113	95.6			
0	Btu/h	13500	11700	10100	8520	6890		
	Watts	1380	1420	1460	1500	1540		
	Amps	2.83	2.89	2.97	3.05	3.09		
	Lb/h	171	154	138	122	103		
5	Btu/h	15700	13800	12100	10500	8850		
	Watts	1470	1520	1570	1610	1660		
	Amps	2.94	3.01	3.09	3.17	3.23		
	Lb/h	198	181	165	149	131		
10	Btu/h	18100	16100	14300	12600	10900	9010	6790
	Watts	1540	1610	1670	1730	1780	1820	1860
	Amps	3.04	3.12	3.21	3.30	3.37	3.40	3.35
	Lb/h	226	209	194	178	160	139	110
15	Btu/h	20700	18600	16700	14900	13100	11100	8860
	Watts	1610	1690	1760	1830	1900	1950	2000
	Amps	3.13	3.22	3.32	3.43	3.52	3.57	3.55
	Lb/h	258	240	224	209	191	170	142
20	Btu/h	23600	21300	19300	17400	15400	13400	11000
	Watts	1660	1760	1850	1940	2020	2080	2140
	Amps	3.21	3.30	3.43	3.56	3.67	3.74	3.75
	Lb/h	291	273	257	241	224	203	176

25	Btu/h	26800	24300	22100	20000	17900	15800	13300
	Watts	1690	1810	1930	2030	2130	2210	2280
	Amps	3.26	3.38	3.53	3.68	3.82	3.92	3.96
	Lb/h	328	309	292	276	258	237	211
30	Btu/h	30200	27500	25100	22900	20600	18300	15700
	Watts	1710	1860	2000	2120	2240	2340	2420
	Amps	3.30	3.44	3.61	3.79	3.96	4.10	4.17
	Lb/h	368	347	330	313	295	274	248
35	Btu/h	34000	31100	28400	25900	23500	21000	18300
	Watts	1720	1890	2050	2200	2340	2460	2560
	Amps	3.31	3.48	3.68	3.89	4.10	4.27	4.39
	Lb/h	411	389	371	353	335	313	287
40	Btu/h	38100	34900	32000	29300	26700	24000	21100
	Watts	1700	1900	2090	2270	2430	2570	2700
	Amps	3.30	3.50	3.73	3.98	4.23	4.44	4.60
	Lb/h	458	435	415	396	377	355	328
45	Btu/h	42600	39100	35900	33000	30100	27200	24100
	Watts	1660	1890	2120	2320	2510	2680	2830
	Amps	3.26	3.49	3.76	4.05	4.34	4.60	4.81
	Lb/h	509	484	463	443	423	400	372
50	Btu/h	47400	43600	40100	36900	33800	30700	27400
	Watts	1600	1870	2120	2360	2580	2780	2950
	Amps	3.19	3.46	3.77	4.10	4.44	4.75	5.01
	Lb/h	565	538	514	493	471	448	419
55	Btu/h	52700	48500	44700	41200	37800	34400	30800
	Watts	1510	1820	2110	2380	2630	2860	3060
	Amps	3.08	3.39	3.75	4.13	4.52	4.88	5.20
	Lb/h	625	595	570	547	524	499	470

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.044899E+04	1.486012E+03	5.548914E+00	6.063101E+02
C2	6.903952E+02	-1.108593E+01	4.351599E-02	6.674764E+00
C3	-8.743044E+02	-8.587170E+00	-9.716563E-02	-1.121598E+01
C4	7.496476E+00	-5.776721E-01	-7.808546E-04	7.078433E-02
C5	-4.804641E+00	4.986912E-01	-4.860884E-04	-3.805463E-02
C6	6.925693E+00	1.237787E-01	1.089813E-03	9.952662E-02
C7	3.057561E-02	-2.222559E-03	-3.582521E-06	3.770205E-04
C8	-4.945220E-02	5.265827E-03	8.001006E-06	-4.409060E-04
C9	1.872869E-02	-1.742796E-03	2.899993E-06	2.378620E-04
C10	-2.220560E-02	-4.044301E-04	-3.756872E-06	-3.417739E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AVA5535EXG

General Information

Model	AVA5535EXG	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	9340	7820					
	Watts	1740	1720					
	Amps	2.71	2.68					
	Lb/h	120	105					
-10	Btu/h	11500	9830	8230				
	Watts	1850	1850	1820				
	Amps	2.85	2.85	2.81				
	Lb/h	147	131	114				
-5	Btu/h	13800	12000	10300	8600			
	Watts	1950	1970	1970	1930			
	Amps	2.97	3.01	3.00	2.95			
	Lb/h	176	160	142	124			
0	Btu/h	16400	14500	12600	10700	8950		
	Watts	2040	2080	2100	2090	2030		
	Amps	3.09	3.15	3.17	3.15	3.08		
	Lb/h	208	191	173	154	134		
5	Btu/h	19200	17200	15100	13100	11100		
	Watts	2120	2180	2230	2240	2220		
	Amps	3.19	3.27	3.33	3.34	3.31		
	Lb/h	242	224	206	186	166		
10	Btu/h	22300	20100	17900	15700	13600	11500	9490
	Watts	2190	2280	2340	2380	2390	2350	2270
	Amps	3.27	3.38	3.47	3.52	3.52	3.48	3.37
	Lb/h	279	261	241	221	200	178	155
15	Btu/h	25600	23300	20900	18500	16200	14000	11800
	Watts	2250	2360	2440	2510	2540	2540	2490
	Amps	3.35	3.48	3.60	3.68	3.72	3.71	3.65
	Lb/h	318	300	280	259	237	214	190
20	Btu/h	29200	26700	24200	21700	19100	16700	14300
	Watts	2310	2430	2540	2630	2690	2710	2700
	Amps	3.41	3.57	3.71	3.82	3.89	3.93	3.90
	Lb/h	361	342	322	300	278	254	229

25	Btu/h	33100	30500	27800	25000	22300	19700	17100
	Watts	2350	2490	2620	2730	2820	2880	2900
	Amps	3.47	3.65	3.81	3.95	4.06	4.12	4.14
	Lb/h	406	387	367	345	322	297	272
30	Btu/h	37400	34500	31600	28700	25800	23000	20100
	Watts	2390	2540	2690	2830	2940	3030	3080
	Amps	3.51	3.71	3.90	4.06	4.20	4.31	4.36
	Lb/h	455	436	415	393	369	344	318
35	Btu/h	41900	38900	35800	32700	29600	26500	23500
	Watts	2420	2590	2760	2920	3060	3170	3250
	Amps	3.55	3.76	3.97	4.17	4.33	4.47	4.57
	Lb/h	508	489	467	445	421	395	368
40	Btu/h	46800	43600	40300	37000	33700	30400	27100
	Watts	2440	2620	2810	2990	3160	3300	3410
	Amps	3.58	3.81	4.04	4.26	4.45	4.62	4.76
	Lb/h	564	545	523	500	476	450	422
45	Btu/h	52100	48700	45200	41700	38100	34600	31100
	Watts	2450	2650	2860	3060	3250	3410	3560
	Amps	3.60	3.84	4.09	4.33	4.56	4.76	4.93
	Lb/h	624	604	583	560	535	508	480
50	Btu/h	57700	54100	50400	46700	42900	39100	35400
	Watts	2450	2670	2890	3110	3330	3520	3690
	Amps	3.61	3.87	4.14	4.40	4.65	4.88	5.09
	Lb/h	688	668	647	624	598	571	543
55	Btu/h	63700	59900	56000	52100	48100	44000	40000
	Watts	2450	2680	2920	3160	3390	3620	3810
	Amps	3.62	3.89	4.17	4.46	4.73	4.99	5.23
	Lb/h	756	736	715	691	666	639	609

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.945387E+04	1.710833E+03	2.325589E+00	3.086512E+02
C2	6.980001E+02	5.227668E+00	6.475808E-03	6.606763E+00
C3	-1.129263E+02	-5.032455E+00	2.862213E-03	-7.914497E-01
C4	5.847503E+00	-6.882982E-02	-4.534363E-05	4.005725E-02
C5	-1.305210E+00	-9.759365E-02	-1.316347E-04	8.367568E-03
C6	-9.246012E-01	2.145758E-01	1.918152E-04	-6.504070E-03
C7	1.924795E-02	2.640098E-04	9.163737E-07	2.157213E-04
C8	-1.288946E-02	-1.478723E-03	-2.692619E-06	1.230205E-04
C9	-8.690979E-03	3.052060E-03	3.945627E-06	-1.115742E-04
C10	3.680141E-03	-1.251144E-03	-1.358308E-06	8.163322E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature